

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A fluid dispenser device including a fluid dispenser member (10) and a dispenser head (20) provided with a dispensing orifice, said fluid dispenser device being provided with dispensing detector means (30, 31) for detecting dispensing of a dose of fluid, said detector means (30, 31) being adapted to deliver a signal for informing the user that a dose of fluid has indeed been dispensed, said detector means comprising a detector (30) for detecting the fluid going from said dispenser member to said dispenser orifice, wherein said detector (30) comprises a piezoelectric material; and

wherein said detector means are disposed in a sleeve co-operating at one end with said dispenser member and at the other end with said dispenser head; and

said sleeve is made up of two portions engaged one on or around the other, said detector means being disposed between said two sleeve portions, such that one sleeve portion contacts the dispenser member and not the dispenser head and the other sleeve portion contacts the dispenser head and not the dispenser member.

2. (original): A device according to claim 1, in which the dispenser member (10) is connected to the dispensing orifice (40) via an expulsion channel (50), said detector means (30, 31) being provided in said expulsion channel (50).

3. (previously presented): A device according to claim 1, in which said detector (30) is a dynamic pressure detector.
4. (previously presented): A device according to claim 1, in which said detector (30) comprises polyvinylidene fluoride (PVDF).
5. (previously presented): A device according to claim 1, in which said detector (30) comprises a PVDF tube operating in a breathing mode.
6. (previously presented): A device according to claim 2, wherein the detector comprises a PVDF tube and in which said PVDF tube is disposed around a portion of said expulsion channel (50).
7. (withdrawn): A fluid dispenser device including a fluid dispenser member (10) such as a pump or a valve, and a dispenser head (20) provided with a dispensing orifice, said fluid dispenser device being provided with dispensing detector means (30, 31) for detecting dispensing of a dose of fluid, said detector means (30, 31) being adapted to deliver a signal for informing the user that a dose of fluid has indeed been dispensed by said pump, said detector means comprising a detector (30) for detecting the fluid going from said dispenser member to said dispenser orifice, said fluid dispenser device being characterized in that said detector (30) comprises an optical fiber (30).

8. (withdrawn): A device according to claim 7, in which the dispenser member (10) is connected to the dispensing orifice (40) via an expulsion channel (50), said detector means (30, 31) being provided in said expulsion channel (50).

9. (withdrawn): A device according to claim 7, in which said optical fiber (30) is associated with a deformable membrane (31) which deforms when fluid passes through it, such deformation generating stress in the optical fiber (30).

10. (withdrawn): A device according to claim 9, in which said deformable membrane (31) is disposed around a portion of said expulsion channel (50).

11. (withdrawn): A device according to claim 9, in which said optical fiber (30) co-operates with said deformable membrane (31) in a casing (45) secured to the dispenser head (20).

12. (withdrawn): A device according to claim 7, in which said optical fiber (30) is made of plastic or of glass.

13. (canceled).

14. (canceled).

15. (previously presented): A device according to claim 1, in which said sleeve (40) is engaged around a valve member of the valve, or around an actuating rod of the dispenser member.

16. (previously presented): A device according to claim 1, in which said detector means (30, 31) are connected to electronic means (60) for processing the signals delivered by said detector means (30, 31).

17. (previously presented): A device according to claim 1, in which said detector means (30, 31) are adapted to increment or to decrement a dose counter.

18. (previously presented): A device according to claim 1, in which said dispenser member is a pump (10) and said detector means (30) informs the user every time a dose of fluid is dispensed.

19. (previously presented): A device according to claim 1, in which said dispenser member is a metering valve (10) operating with a propellant gas.

20. (previously presented): The device according to claim 1, wherein the fluid dispenser member is a pump or a valve.

21. (currently amended): A fluid dispenser device, comprising:

a fluid dispenser member; and

a dispenser head provided with a dispensing orifice;

the fluid dispenser device comprises a detector that detects a dose of fluid going from the dispenser member to the dispenser orifice, the detector delivers a signal that informs the user that a dose of fluid has been dispensed by the dispenser member, the detector comprising a piezoelectric material; and

wherein the detector is disposed in a sleeve comprised of two sleeve portions, one sleeve portion forms a fluid coupling with only the dispenser member and the other sleeve portion forming a fluid coupling with only the dispenser head, the detector located between the two sleeve portions ~~connected at one end with the dispenser member and at the other end with the dispenser head.~~

22. (new): The fluid dispenser device according to claim 21, wherein the one sleeve portion contacts the dispenser member and not the dispenser head and the other sleeve portion contacts the dispenser head not the dispenser member.

23. (new): The fluid dispenser device according to claim 21, wherein in the two sleeve portions overlap over a substantial axial length of the sleeve.